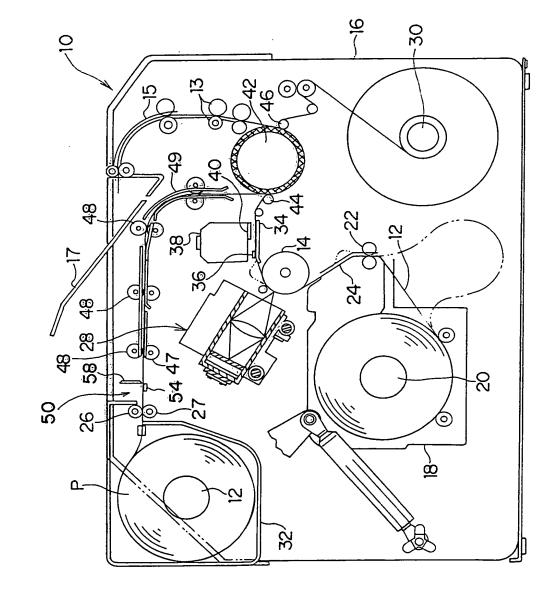
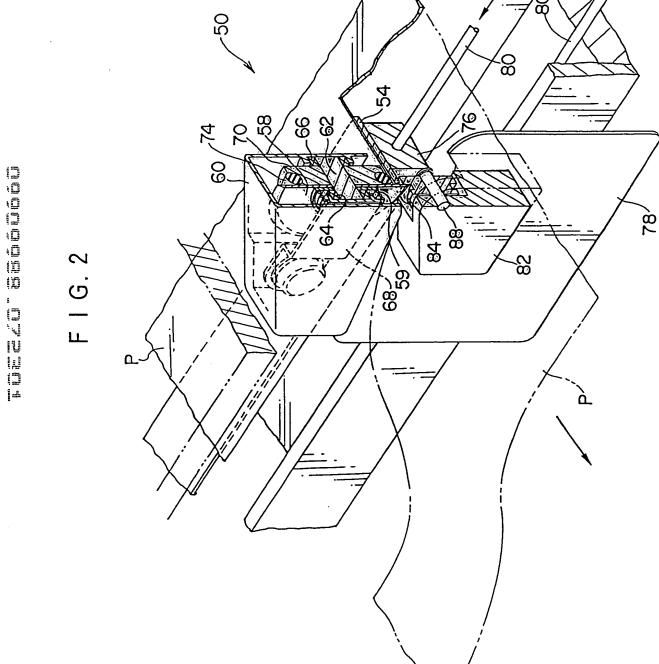
Q64671

TANAKA et al Q64671
METHOD AND APPARATUS FOR
ESTIMATING A LIFE-SPAN OF A CUTTER
Filed: July 23, 2001
Darryl Mexic (202) 293-7060
1 of 10



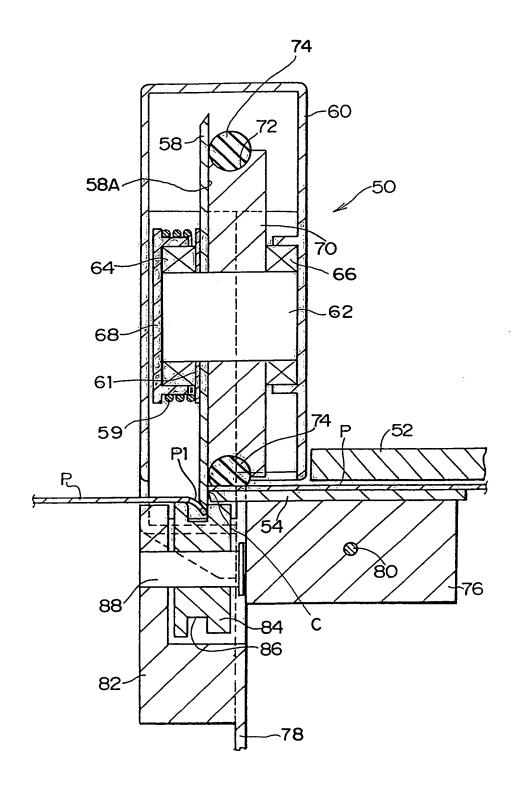
han an an an an a an a



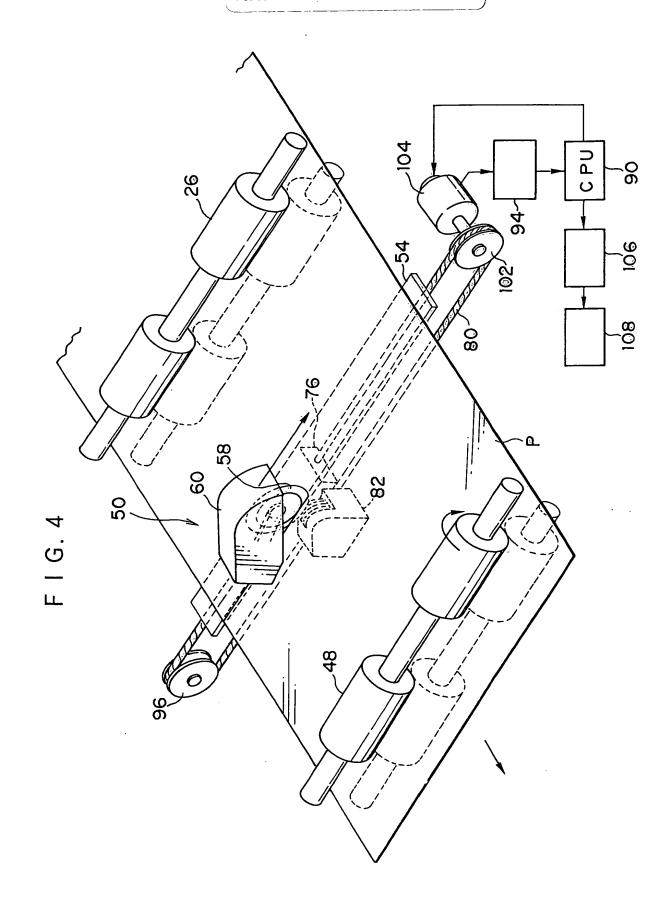
TANAKA et al Q6467
METHOD AND APPARATUS FOR
ESTIMATING A LIFE-SPAN OF A CUTTER
Filed: July 23, 2001
Darryl Mexic (202) 293-7060
3 of 10

Q64671

F I G. 3



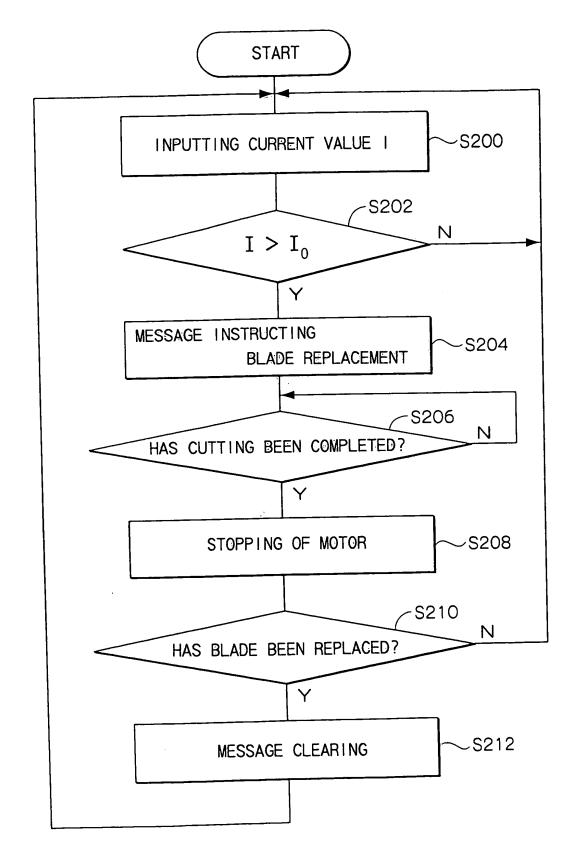
To the top the true that

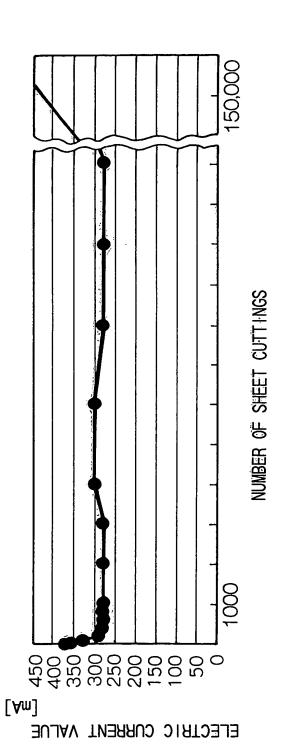


rocross rystt

METHOD AND APPARATUS FOR
ESTIMAT LIFE-SPAN OF A CUTTER
Filed: July 201
Darryl Mexic (202) 293-7060
5 of 10

F I G. 5





TANAKA et al Q64671
METHOD AND APPARATUS FOR
ESTIMATING A LIFE-SPAN OF A CUTTER
Filed: July 23, 2001

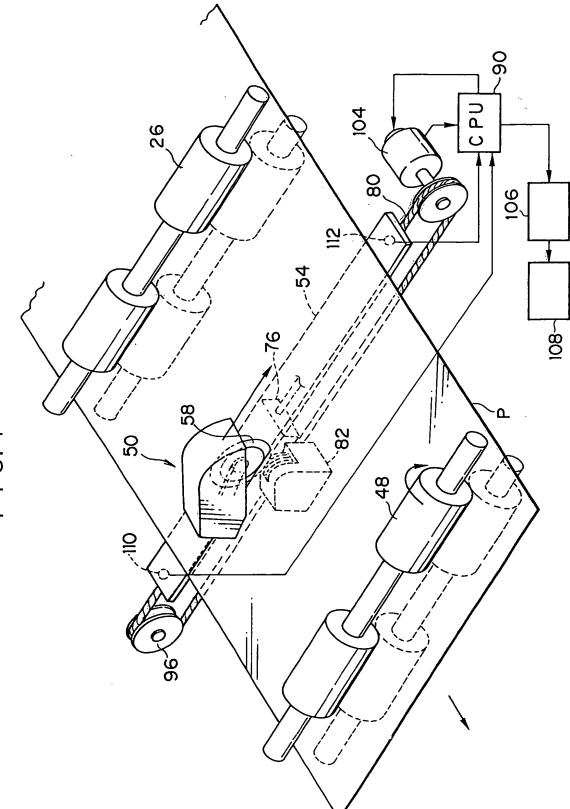
Darryl Mexic 6 of 10

Q64671

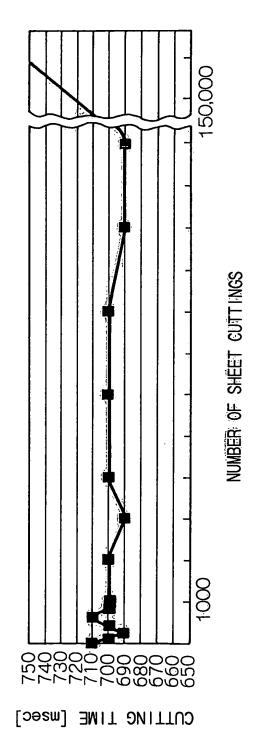
(202) 293-7060

naoree artes

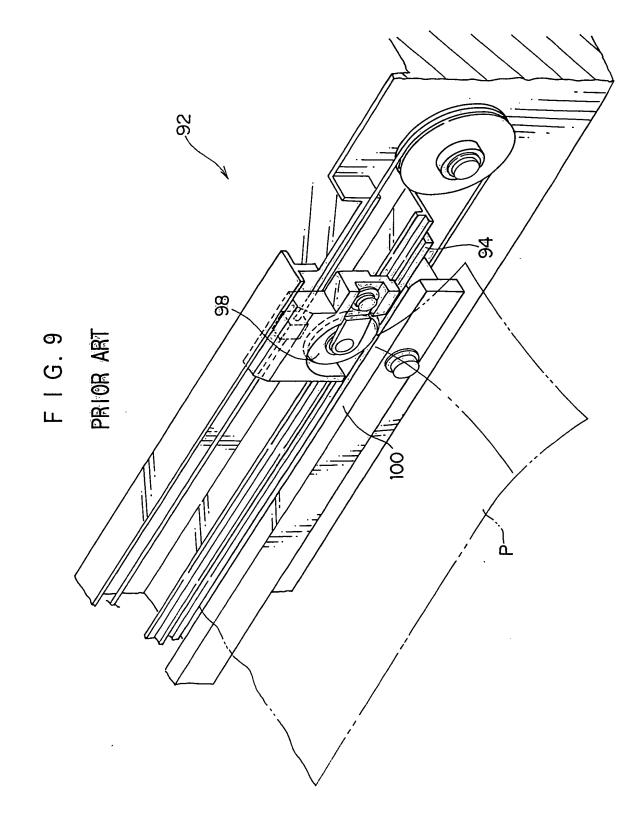
TANAKA et al Q64671
METHOD AND APPARATUS FOR
ESTIMATING A LIFE-SPAN OF A CUTTER
Filed: July 23, 2001
Darryl Mexic (202) 293-7060
7 of 10 Q64671



. დ TANAKA et al Q64671
METHOD AND APPARATUS FOR
ESTIMATING A LIFE-SPAN OF A CUTTER
Filed: July 23, 2001
Darryl Mexic (202) 293-7060
8 of 10



Q64671 TANAKA et al Q64671 METHOD AND APPARATUS FOR ESTIMATING A LIFE-SPAN OF A CUTTER Filed: July 23, 2001 Darryl Mexic (202) 293-7060 9 of 10



TANAKA et al Q64671 METHOD AND APPARATUS FOR ESTIMATING A LIFE-SPAN OF A CUTTER Filed: July 23, 2001 Darryl Mexic (202) 293-7060 10 of 10

F | G. 1 0 PRIOR ART

